

RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION FY-99 5-YEAR IT PLAN

I. EXECUTIVE SUMMARY

The objective of the Research and Special Programs Administration's (RSPA) Information Resources Management (IRM) planning process is to provide the ongoing input, logic, and rationale for RSPA's IRM needs. It is designed to meet RSPA and Departmental requirements through strategies consistent with National Performance Review (NPR) recommendations, the DOT Strategic Plan and RSPA Strategic Plan that enable enhanced sharing of data, process improvement, and cost reduction.

II. SUMMARY OF OUR VISION, MISSION AND STRATEGIC GOALS

RSPA's Vision - A leader in innovative, collaborative solutions in transportation safety, research, education and emergency management.

RSPA's Mission - To protect people and the environment from risks of hazardous materials transportation; foster transportation innovations through research, technology, education and training; and promote transportation emergency management.

RSPA Strategic Goal--Safety: Protect the public by reducing transportation related deaths, injuries, and property damage.

RSPA Strategic Goal--Environment: Protect our natural environment and national heritage from harmful transportation related consequences.

RSPA Strategic Goal--Research and Technology: Foster innovation through science and technology to support the achievement of national transportation goals including safety, mobility, economic growth and trade, human and natural environment and national security.

RSPA Strategic Goal--Education and Training: Build and continuously develop a highly-skilled transportation workforce.

RSPA Strategic Goal--Emergency Management: Minimize the impact on people, property, and the environment following emergencies affecting transportation and ensure transportation readiness during civilian and national security crises.

III. MISSION

The RSPA mission is served by a diverse group of organizations each of which has distinct responsibilities for supporting the RSPA mission. Each of these organizations is largely supported by information technology that is specific to their organization, rather than RSPA as a whole. The majority of the Program Office initiatives within the current RSPA environment are similarly oriented toward developing and managing the information resources of a given organization. A limited set of system resources also exist which are viewed as shared corporate resources.

Major Programs

The following highlights of RSPA's diverse programs demonstrate the vital intermodal role which RSPA plays in developing and deploying research and technology, ensuring safe transportation of goods and people, and maintaining emergency preparedness.

Research and Technology Development and Deployment

Like other Department of Transportation (DOT) operating administrations, RSPA conducts research and technology activities in support of its operating mission responsibilities, particularly in pipeline safety and hazardous materials transportation. However, it has a much broader role in suggesting strategic directions and priorities for the DOT R&D program as a whole. Additionally, RSPA's Volpe National Transportation Systems Center, RSPA conducts research and analysis of transportation technologies for clients from throughout DOT and other federal agencies on a reimbursable basis.

RSPA has a primary responsibility for strategic research and technology planning and coordination of the research and technology development activities which result. On behalf of the Deputy Secretary, RSPA works through the President's National Science and Technology Council (NSTC) to establish transportation research needs and priorities to support national goals. RSPA then works with the other operating administrations to reflect these strategic directions, as amplified in the DOT Strategic Plan, in an effective Departmental Research and Technology program.

Finally, RSPA ensures the broad dissemination of research results through the management of both direct and indirect technology transfer programs. RSPA's TechSharing Program provides user-friendly research results to state, local, and regional transportation decision-makers across the country through both print-based and electronic media. Additionally, the research products of RSPA's university research program are made available through a centralized clearinghouse, and through the Department's many technology assistance outlets.

Safe and Environmentally Sound Transportation of People and Goods

RSPA prescribes which materials are hazardous, what shipments must be transported as "hazardous materials," and what kind of packaging, labels, operating practices, response planning, and employee training must accompany that transport. The issuance of rules to establish training requirements for employees involved in transporting hazardous materials, and the provisioning of a telephone call service providing on-the-spot help with safe hazardous materials practices to needy shippers and transporters are among RSPA's recent accomplishments in this area. RSPA also prescribes the design, construction, and safe operating and maintenance practices for pipelines that transport gas and hazardous liquids. Recent accomplishments in this area include the issuance of rules prescribing standards for previously unregulated, low-stress petroleum pipelines, rules requiring pipelines to be built to allow internal inspection, and rules calling for enhanced operations and maintenance plans.

Emergency Preparedness

RSPA's Office of Emergency Transportation (OET) develops and maintains the Department's emergency preparedness programs, and manages the crisis management organization across the full spectrum of crises. OET organized and coordinated a massive intermodal response to the floods in the Midwest, to the earthquakes in the West, to hurricanes in the East, to the labor strikes, and to many other emergencies. RSPA's Offices of Pipeline Safety and Hazardous Materials Safety each provide coordination, training, and direct services that ensures preparedness in responding to hazardous material and pipeline incidents. The Office of Hazardous Materials Safety provides grants to states for the training of response personnel, thereby enhancing the effectiveness of those who are first on the scene of a hazardous materials spill. RSPA's Emergency Response Guidebook, also issued in a Spanish-language version, has become the international prototype for guidance during the initial response to hazardous materials incidents. The Office of Pipeline Safety was key in successfully responding to pipeline accidents across the country.

IV. MAJOR ACCOMPLISHMENTS

The following subsections provide a description of the major accomplishments of the RSPA OA programs during FY-98.

RSPA Wide

A stable, dependable and reliable infrastructure is a critical requirement for enabling the RSPA program and staff offices to adequately plan and perform RSPAs mission essential function. During FY 98 this infrastructure was supported and enhanced as follows:

- Attained Y2K certification for 26 mission critical systems.
- Operated the RSPA Help Desk to provide rapid response and support to our offices with automation needs or problems. Most incidents are resolved within two hours.
- Provided a greater than 98% access uptime to all servers on the RSPA LAN.
- Upgraded and balanced the server workload.
- Improved modem pool efficiency.
- Chaired regular meetings with representatives from the RSPA offices. The user input that is provided has a significant impact on the nature of the automated support services that are provided.
- Migrated to Exchange Mail client to allow our RSPA users to communicate more effectively.

- Standardized PC operating systems to Windows NT 4.0.
- Improved existing and converted to COTS databases, wherever possible.
- Deployed new versions of applications software.
- Maintained and improved the RSPA Home Page on the Internet.
- Upgraded hub communication equipment to 100mb.
- Distributed approximately 110 excess computers to schools under the Garret A. Morgan program and E.O. 12999.
- Attended 12% reduction in the Information Collection Budgets from the FY95 base.
- Deployed video teleconferencing capability.

Office of Pipeline Safety

- Established Wide Area Network Electronic Communication linkage to the Alaska state office and DPS regional offices.
- Deployed the Mapping System to the regional offices.
- Upgraded State Pipeline Safety Program desktop equipment.
- Deployed a new release of Integrated Operator Compliance System (IOCS).
- Certified the IPIS system as Y2K compliant.

Office of Hazardous Materials Safety

- Improved the performance of the menu-driven programs used by federal, state, and local government agencies that access data contained in the Hazardous Materials Information System (HMIS).
- Continued evaluation of the electronic collection of Hazardous Materials Incident Report (DOT F5800.1) data to the HMIS.
- Continued developing a WWW home page for the Office of Hazardous Materials Safety.
- Certified the HMIS system as Y2K compliant.

The Volpe National Transportation Systems Center (The Volpe Center)

- TSCORA – The AlphaServer 4000 has been reconfigured to support the new Acquisitions application. One gigabyte (GB) of memory was added to accommodate the Compusearch software and Oracle backend database. User training and transition from older

acquisition programs is planned for FY 99. Two servers have been installed to link to the Compusearch PRISM application and provide additional functionality and access:

NetWare server – FARA server used by the Acquisition Specialists to search and retrieve Federal Acquisition Regulations

- NT server – PRISM Web server for browser access to the acquisition application
- Volpe Data Center Improvements – Efforts for FY 99 and beyond include the trade-in of the DEC/Compaq Alpha 7620 for a DEC/Compaq GS-140 and upgrading the DEC/Compaq AlphaServer 8400 to a DEC/Compaq GS-140 to provide the Center with redundant, scalable, high-end processing capability.
- StorageWorks Improvements – Internal storage on the AlphaServer 8400 (TSCMUS) was expanded in FY 98 by adding two 9 GB disks and one 4 GB disk. The migration from older drives and controllers to newer StorageWorks capabilities is planned for FY 99 and beyond.
- Network Improvements –

During FY 98, the LAN in the Computer Center was reconfigured to take advantage of Fast Ethernet Switching and enhance the OpenVMS Cluster performance. The strategy for FY 99 is to move the Computer Center to 100 Mb LAN capacity and segment it as a unique VLAN (separate broadcast domain) to isolate DecNet broadcast traffic and reduce overall Volpe LAN traffic.

- Five Fast Ethernet Switches were installed in the main building to alleviate high port density problems, bring 10 Mb switched Ethernet to the desktop, and increase backbone capacity to 100 Mb to critical servers in the Computer Center. The rest of the Volpe Center will be upgraded to Fast Ethernet Switching (10 Mb to the desktop) in FY 99.
- Uninterrupted Power Supply (UPS) – 100% UPS coverage for batteries and generators was provided in FY 98 for all computing and communications equipment.
- Intranet Infrastructure – The initiation of the Volpe Center intranet capabilities is planned for FY 99. An NT server and Oracle Webserver and database software have been procured and installed for this purpose.
- Year 2000 Compliance – All Mission Critical Systems have been

Renovated and Validated in FY 98. Implementation and Certification will be completed before the end of the first quarter in FY 99.

- The Volpe Center continues to implement its program to comply with all statutory and regulatory requirements. SSPs are reviewed and new ones prepared as required. Full compliance with all DOT security control measures remains the ultimate goal for all General Support Systems and “Sensitive” Applications. The scope of the security activities accomplished in FY 98 included:
 - The Disaster Recovery Plan and the DEC Recover-All Coverage Program have been reviewed and updated/upgraded to include new hardware installed in the Computer Center.
 - The Volpe Center’s dual firewall environment, utilizes robust hardware and software to accommodate a significant increase in activity and increased E-Mail usage.
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- The development of a “web-based” AIS Security Awareness and Training Program continues. Modules are being developed to better accommodate the needs of users in obtaining the required information in a more efficient and cost-effective manner.
 - Activities were conducted to monitor the Computer Center’s Cluster environment for inappropriate accesses and conformance to password requirements..
 - The Virus Remediation Program continues with incorporation of LAN Server-based software on some systems to decrease the vulnerability to infected documents.
 - The AIS Security Staff serves as advisors to the Internet/Intranet Web-site development group to ensure appropriate measures are incorporated into web-based applications.

V. RSPA’S CORPORATE MANAGEMENT STRATEGIES FOR INFORMATION TECHNOLOGY

Customer Service:

All parts of RSPA strive to stay linked to the various communities it serves. Whether it is the regulated industries of pipeline and hazardous materials, organizations conducting research and

development based in the public and private sectors, or the emergency management community at the national, state and local levels, there are a variety of means RSPA will employ to stay responsive with Internet accessibility. The easy availability and low-cost of electronic transmission offers RSPA a revolutionary opportunity to provide citizens and stakeholders with information on nearly everything RSPA undertakes and makes that information instantly available to those with a computer and modem. This will include: improved information through electronic Freedom-Of-Information-Requests (FOIA); a comprehensive listing of regulations, applications and forms; grant opportunities; descriptions of innovative public-private partnerships; and the state-of-the-art Hazardous Information Management System (HMIS).

Internally, RSPA's new IT support services contract stresses customer services as a key ingredient to program performance. Performance measures and evaluation techniques are in place and dedicated to ensuring RSPA employees meet their needs.

Information Technology:

RSPA is committed to deploy information systems which are secure, reliable, compatible and cost effective to better accomplish RSPA's mission. This will be achieved by providing superior data and architecture management, enhanced telecommunications capabilities, improved information and data sharing, more efficient data collection and retention procedures, and security process improvements. We will do this through implementation and adherence to our "Information Resource Management Five Year Plan", our "Year 2000 Management Plan", and by following our "Information Technology Architecture" guide. To ensure that we are successful, RSPA has begun an in-depth study of its information resource management and information technology program to provide adequate planning for the future and to guarantee that sufficient resources are identified and systems are in place to maximize their productive use. RSPA will expand the use of in-house video-conferencing to help support program needs with a focus on emergency transportation and communications with RSPA field offices and industry partners. RSPA also plans to expand its use of electronic commerce to meet agency needs through posting contract solicitations on the Internet and is planning to partner within the Department on an Electronic Grants project.

VI. KEY GOALS AND OBJECTIVES FOR 1999

RSPA's Strategic Goals are aligned with DOT's to enhance overall performance. We are committed to implementing our strategic plan by infusing it into the budget process, supporting it through day-to-day activities within the operating offices, and reinforcing the strategic goals and outcomes through the actions of our political and senior career officials.

Under the Government Performance and Results Act of 1993, annual performance plans are required by Federal agencies, including DOT. The Department's first annual performance plan was prepared for FY 1999 and is intended to link DOT's Strategic Plan, through performance goals, to DOT's budget. To contribute to DOT's overall performance, RSPA's long-term Strategic and Outcome Goals directly support DOT's Annual Performance Plan through RSPA Performance Goals. These goals form the basis by which we will measure our near-term achievements toward our long-term strategic goals, given RSPA's level of budgeted resources. Monthly reporting on goals contained in the RSPA Administrator's Performance Agreement

with the Secretary will be our measure for ensuring we meet our targets. Our success, or failure, in each of these areas will be our gauge--and a scorecard for the American public--to communicate RSPA's and, ultimately, DOT's near-term progress toward meeting the intended strategic goals. Individual linkages to DOT's FY 1999 Performance Plan, by RSPA Strategic Goal, RSPA Performance Goal(s) and DOT's Strategic Goal(s) and consequently to the IT plans are summarized in the RSPA Strategic Plan.

FY-99 5-YEAR IT PLAN

INITIATIVE ID: RSPAO001

OA: RSPA

ORGANIZATION/ENTITY (OA OFFICE SYMBOL - PHONE BOOK CODE): DPS

TITLE OF PROGRAM/PROJECT:

OPS COMPUTER HARDWARE REQUIREMENTS (HQ AND REGIONS)

TOTAL LIFE CYCLE COST (IN \$000): \$1,730

DESCRIPTION:

ONE OF THE KEY COMPONENTS OF THE OPS VISION FOR THE FUTURE PLATFORM INVOLVES IMPLEMENTING WAN CONNECTIVITY IN THE REGIONS. THIS WILL SUPPORT INTERNAL OPS CUSTOMERS BY DECREASING THE OFFICE AUTOMATION SUPPORT BURDEN AT A REGIONAL LEVEL WHILE INCREASING BANDWIDTH TO REGION OFFICES, ALLOWING GLOBAL ACCESS TO HQ BASED IMAGING SYSTEMS AND GEOGRAPHICAL INFORMATION SYSTEMS (GIS) CURRENTLY UNDER DEVELOPMENT. THE PLATFORM BEING DELIVERED WAS DESIGNED TO MAKE MAXIMIZE USE OF THE BEST TECHNOLOGY THAT IS CURRENTLY AVAILABLE FOR MEETING THE NEEDS OF OUR STATE PARTNERS OVER THE NEXT FIVE YEARS. CD ROM TECHNOLOGY, FAST MODEMS, AND MULTIMEDIA CAPABILITIES POSITION THE PLATFORM TO TAKE ADVANTAGE OF INTERNET DEVELOPMENTS AND PROVIDE STATES LINKAGES TO EDERAL IMAGING SYSTEMS. WORKSTATION MAINTENANCE AND REPLACEMENT IS AN ESSENTIAL COMPONENT OF ANY IRM PLAN. AVERAGE LIFE-CYCLE FOR WORKSTATIONS ARE FROM THREE TO FIVE YEARS. REPLACEMENT COST PLANNING IS ESSENTIAL.

JUSTIFICATION - PERFORMANCE AND SAVINGS:

WITHOUT ADEQUATE SUPPORT TO MAINTAIN THE BASIC WORKSTATION COMPONENTS THAT OPS STAFF NEED TO FULLFILL THE PROGRAM MISSION, THE FUNDAMENTAL OPERATION OF THE OFFICE WOULD BE IN JEOPARDY. WAN INSTALLATIONS ARE NEEDED FOR ADEQUATE BANDWIDTH TO FULLY DEPLOY IOCS AND PIPELINE SYSTEMS.

CONTACT PERSON AND PHONE NUMBER: Mr. Roger Little (202) 366-4569

CONTRACT STRATEGY:

A COMBINATION OF FULL AND OPEN SMALL BUSINESS SET ASIDE REQUIREMENT AND AN AGENCY PROJECT PLAN AGREEMENT

INITIATIVE ID: RSPAO002 **OA:** RSPA

ORGANIZATION/ENTITY (OA OFFICE SYMBOL - PHONE BOOK CODE): OPS

TITLE OF PROGRAM/PROJECT:

PROVIDE SOFTWARE, HARDWARE, AND TRAINING SUPPORT TO STATE PIPELINE SAFETY PROGRAMS

TOTAL LIFE CYCLE COST (IN \$000): \$1,017

DESCRIPTION:

THIS ITEM INVOLVES PROVIDING SOFTWARE, HARDWARE, AND TRAINING SUPPORT TO STATE PIPELINE SAFETY PROGRAMS. THIS WILL SUPPORT OPS' INTERNAL AND EXTERNAL CUSTOMERS BY GREATLY FACILITATING INFORMATION SHARING DURING CRISES AND PROVIDING QUICKER ON-SCENE COORDINATION BETWEEN FEDERAL AND STATE AGENCIES DURING EMERGENCIES.

JUSTIFICATION - PERFORMANCE AND SAVINGS:

STATE AND FEDERAL AGENCIES WOULD BE MUCH MORE LIMITED IN TERMS OF THEIR

CAPABILITY TO EFFECTIVELY NETWORK AND COORDINATE THE USE OF THEIR COMBINED RESOURCES IN RESPONDING TO PIPELINE SITUATIONS

CONTACT PERSON AND PHONE NUMBER: MR. ROGER LITTLE (202) 366-4569

CONTRACT STRATEGY:
FULL AND OPEN COMPETITION

INITIATIVE ID: RSPAO004 **OA:** RSPA

ORGANIZATION/ENTITY (OA OFFICE SYMBOL - PHONE BOOK CODE): OPS

TITLE OF PROGRAM/PROJECT:
GEOGRAPHIC INFORMATION SYSTEMS DEVELOPMENT

TOTAL LIFE CYCLE COST (IN \$000): \$4,400

DESCRIPTION:

COMPREHENSIVE ANALYSIS OF SAFETY ELEMENTS IN THE PIPELINE INDUSTRY CURRENTLY INVOLVES THE USE OF MANY DISPARATE DATASETS IN DIFFERENT LOCATIONS, SOFTWARE SYSTEMS, AND HARDWARE PLATFORMS, INCREASING THE COMPLEXITY AND LOWERING THE EFFICIENCY WITH WHICH SUCH STUDIES CAN BE ACCOMPLISHED. OF INCREASING IMPORTANCE FOR SAFETY ANALYSIS IS THE LOCATION OF PIPELINES IN PROXIMITY TO ENVIRONMENTAL HAZARDS, WETLANDS, DRINKING WATER INTAKES, AND PEOPLE. TODAY, ELECTRONIC MAPPING SYSTEMS PROVIDE INTEGRATION OF DATA TO A SINGLE PLATFORM, ENABLING GEOSPATIAL ANALYSIS, SIMPLIFYING COMPLEX ANALYSES, AND PROVIDING INFORMATION IN A MORE DIGESTIBLE FORM THROUGHOUT THE ORGANIZATION. BASIC INFORMATION SUCH AS PIPELINE NAME, OWNERSHIP, AND INSPECTION DATA WOULD BE STORED WITH AND ACCESSIBLE THROUGH THE GRAPHIC OF THE PIPELINE, NOT IN VARIOUS REMOTE DATABASES. AS THE COSTS OF IMPLEMENTATION OF THESE SYSTEMS RAPIDLY LESSENS, OPS MUST EVALUATE FUTURE INFORMATION PROCESSING REQUIREMENTS IN TERMS OF TIME REQUIRED TO OBTAIN LOCATION DATA AND IMPLEMENT SUCH SYSTEMS.

JUSTIFICATION - PERFORMANCE AND SAVINGS:

IN THE ABSENCE OF THIS INITIATIVE, THE ONGOING INEFFICIENCIES THAT ARE CREATED BY THE NEED TO UTILIZE DISPARATE DATABASES IN PERFORMING PIPELINE SAFETY ANALYSES ARE LIKELY TO CONTINUE. SPATIAL ANALYSIS OF PIPELINE RISKS AS POSED TO ENVIRONMENT AND POPULATION WILL BE IMPOSSIBLE WITHOUT THIS EFFORT.

CONTACT PERSON AND PHONE NUMBER: MR. ROGER LITTLE (202) 366-4569

CONTRACT STRATEGY:
STATE GRANTS AND THE USE FULL AND OPEN COMPETITION

INITIATIVE ID: RSPAO005 **OA:** RSPA

ORGANIZATION/ENTITY (OA OFFICE SYMBOL - PHONE BOOK CODE): OPS

TITLE OF PROGRAM/PROJECT:
Integrated Operator Compliance System (IOCS) formerly OPS Work Redesign, Information System Planning and Architecture Development

TOTAL LIFE CYCLE COST (IN \$000): \$3,695

DESCRIPTION:

THIS IS AN ONGOING EFFORT TO STREAMLINE AND IMPROVE WORK PROCESSES AND THE INFORMATION SYSTEMS THAT SUPPORT THEM. GroupWare IS BEING USED TO SUPPORT THESE EFFORTS. THE OVERALL GOALS ARE TO IMPROVE OPS WORK PROCESSES AND INTEGRATE THE EXISTING DATABASES TO IMPROVE ACCESS TO INFORMATION NEEDED FOR RISK BASED DECISION MAKING. IN 1996, OPS WILL BE REENGINEERING THE FIELD USAGE COMPONENT OF OPINS, THE OPERATOR INSPECTION DATABASE, WHICH STORES DATA ON INSPECTION OF OPERATORS. CURRENTLY HOUSED ON THE VAX IN CAMBRIDGE, MASSACHUSETTS, THE SYSTEM WILL BE REDESIGNED TO RUN ON NOTEBOOK COMPUTERS, WITH PRIMARY CONSIDERATION GIVEN TO ENABLING FIELD USE AND ON-SITE DATA ENTRY. THE SYSTEM WILL USE THE ORACLE DATABASE AND PROVIDE THE CORNERSTONE FOR INTEGRATION OF GIS DATA AND OTHER OPERATOR-RELATED DATA STORED ON THE VAX.

JUSTIFICATION - PERFORMANCE AND SAVINGS:

WITHOUT THE NEW INTEGRATED OPERATOR COMPLIANCE SYSTEM, OPS WILL CONTINUE TO HAVE NO ACCESS TO DATA WHILE ONSITE DURING INSPECTIONS AND WILL RELY ON AN ANTIQUATED TEXT-BASED MAINFRAME SYSTEM FOR WHICH VENDOR SUPPORT IS BECOMING VERY LIMITED.

CONTACT PERSON AND PHONE NUMBER: MR. ROGER LITTLE (202) 366-4569

CONTRACT STRATEGY:

AGENCY PROJECT PLAN AGREEMENT

INITIATIVE ID: RSPAO006

OA: RSPA

ORGANIZATION/ENTITY (OA OFFICE SYMBOL - PHONE BOOK CODE): OPS

TITLE OF PROGRAM/PROJECT:

INTEGRATED PIPELINE INFORMATION SYSTEMS MAINTENANCE AND DEVELOPMENT

TOTAL LIFE CYCLE COST (IN \$000): \$6,963

DESCRIPTION:

IPIS IS THE OFFICE OF PIPELINE SAFETY'S INFORMATION SYSTEM FOR COLLECTION, DISSEMINATION, AND ANALYSIS OF THE DEPARTMENT'S PIPELINE SAFETY RELATED DATA, USED BY STATE, REGIONAL, FEDERAL AND LOCAL GOVERNMENTS IN SAFETY RISK ASSESSMENT PLANNING AND ENFORCEMENT EFFORTS. IT IS JOINTLY HOUSED WITH HAZMAT'S HMIS SYSTEM ON A VAX IN CAMBRIDGE, MASSACHUSETTS.

MAINTAINING THIS DATABASE IS ESSENTIAL FOR MEETING OPS' DAY-TO-DAY DATA NEEDS. SAFETY INSPECTORS RELY HEAVILY ON THE SYSTEM TO DETERMINE RISK ASSESSMENT AND PRIORITIZATION OF INSPECTION ACTIVITIES AND FOR TRACKING ENFORCEMENT ACTIVITIES. EXTERNAL CLIENTS RELY ON THE DATA HEAVILY FOR FOIA REQUESTS. THE DATA IS ALSO USED FOR OPS'S PIPELINE INSPECTION PRIORITY PROGRAM (PIPP) WHICH IS USED BY BOTH FEDERAL AND STATE INSPECTORS TO DETERMINE INSPECTION SCHEDULES BASED ON RISK. SYSTEM 1032 USED AS THE DATABASE LANGUAGE ON THE VAX IS ARCHAIC AND IS NOT MEETING USER NEEDS. PLANS ARE UNDERWAY TO REPLACE THE DATABASE SYSTEM WITH ORACLE RELATIONAL DATABASE SOFTWARE. THIS WILL SERVE TO INTEGRATE FIELD DATA COLLECTION, WHICH WAS ALREADY CONVERTED TO ORACLE AS PREVIOUSLY DESCRIBED IN THIS PLANNING DOCUMENT. IT WILL ALSO PROVIDE TIES TO ALL OF THE OTHER DATA THAT OPS COLLECTS, INCLUDING THE DATA TO BE COLLECTED IN THE NATIONAL PIPELINE MAPPING SYSTEM.

FIGURES QUOTED ARE FOR IN HOUSE SUPPORT CONTRACT COSTS WHICH INCLUDE INFORMATION DISSEMINATION FOR FOIA REQUEST AND CONGRESSIONAL DATA REQUESTS, PROGRAMMING MAINTENANCE , ANALYSIS AND IMPROVEMENTS.

JUSTIFICATION - PERFORMANCE AND SAVINGS:

ANALYTICAL AND INFORMATION SYSTEMS SUPPORT NEEDS ARE ONGOING. IPIS REMAINS THE TERM USED FOR SUPPORT FOR OVERREACHING ANALYTICAL AND INFORMATION SYSTEM NEEDS. THE CORE OF OPS INFORMATION DISSEMINATION AND ANALYSIS DEVOLVES FROM THIS SYSTEM AND ITS CONTRACTED SUPPORT.

CONTACT PERSON AND PHONE NUMBER: MR. ROGER LITTLE

CONTRACT STRATEGY:

A COMBINATION OF FULL AND OPEN SMALL BUSINESS SET ASIDE REQUIREMENT AND AN AGENCY PROJECT PLAN AGREEMENT

INITIATIVE ID: RSPAO008 **OA:** RSPA

ORGANIZATION/ENTITY (OA OFFICE SYMBOL - PHONE BOOK CODE): DHM

TITLE OF PROGRAM/PROJECT:

HAZARDOUS MATERIALS INFORMATION SYSTEM (HMIS)

TOTAL LIFE CYCLE COST (IN \$000): \$16,020

DESCRIPTION:

RSPA'S HAZARDOUS MATERIALS INFORMATION SYSTEM (HMIS) IS THE PRINCIPAL SOURCE OF SAFETY DATA RELATED TO HAZARDOUS MATERIALS TRANSPORTATION. THIS SYSTEM CONTAINS COMPREHENSIVE DATA ON INCIDENTS, EXEMPTIONS AND APPROVALS, ENFORCEMENT ACTIVITIES, THE REGISTRATION PROGRAM AND OTHER ELEMENTS THAT SUPPORT THE REGULATORY PROGRAM. THE INCIDENTS DATA IS BASED ON BOTH IMMEDIATE TELEPHONE REPORT OF CERTAIN INCIDENTS COLLECTED AND TRANSMITTED DAILY TO THE HMIS BY THE US COAST GUARD'S NATIONAL RESPONSE CENTER, AND ON WRITTEN REPORTS FILED WITH THE AGENCY BY THE CARRIER WITHIN THIRTY DAYS OF ALL COVERED INCIDENTS. THESE WRITTEN REPORTS NUMBER ABOUT 15,000 ANNUALLY, WITH A TOTAL HISTORICAL DATABASE OF ABOUT 280,000 INCIDENTS.

RSPA HAS BEGUN THE CONVERSION AND UPGRADING OF THE HAZARDOUS MATERIALS INFORMATION SYSTEM (HMIS) DATABASE MANAGEMENT SOFTWARE TO PROVIDE A MORE ROBUST SYSTEM ENVIRONMENT TO INCREASE DATA COLLECTION AND DISSEMINATION CAPABILITIES. RSPA CONTINUES TO IMPROVE HMIS MENU-DRIVEN PROGRAMS TO ENABLE ALL OF THE FEDERAL, STATE AND LOCAL GOVERNMENT SYSTEM USERS TO ACCESS DATA AND GENERATE SUMMARY STATISTICAL REPORTS FROM THE SEVEN HMIS SUBSYSTEMS. RSPA'S OFFICE OF HAZARDOUS MATERIALS SAFETY CONTINUES TO ENHANCE AND EXPAND ITS WORLD WIDE WEB SITE ENABLING PUBLIC ACCESS TO THE HMIS DATA. RSPA HAS BEGUN INVESTIGATING ITS CAPABILITY FOR RECEIVING HAZARDOUS MATERIALS INCIDENT REPORT DATA VIA ELECTRONIC TRANSMISSION. RSPA CONTINUES TO DEVELOP OF A PC-BASED IMAGING SYSTEM FOR THE STORAGE AND RETRIEVAL OF ARCHIVED REGISTRATION PROGRAM FORMS, HAZARDOUS MATERIALS INCIDENT REPORT FORMS, EXEMPTION DOCUMENTS AND OTHER OFFICE PROGRAM DOCUMENTS. THE REGISTRATION PROGRAM HAS ADDED 28,500 REGISTRATION RECORDS AND COLLECTED \$8.7 MILLION TO FUND A NATIONAL EMERGENCY RESPONSE PLANNING AND TRAINING PROGRAM.

JUSTIFICATION - PERFORMANCE AND SAVINGS:

HMIS DATA ARE USED TO IDENTIFY EMERGING SAFETY PROBLEMS, MONITOR COMPLIANCE EFFORTS, SUPPORT TRAINING PROGRAMS AND SUPPLY ANALYTICAL JUSTIFICATION FOR REGULATORY PROPOSALS, THE USER BASE IS COMPRISED OF DOT OPERATING ADMINISTRATIONS, OTHER FEDERAL AGENCIES, AND STATE AND LOCAL AUTHORITIES. THE HMIS SYSTEM ALSO SUPPORTS OPS DATA.

CONTACT PERSON AND PHONE NUMBER: MR. KEVIN COBURN (202)366-4555

CONTRACT STRATEGY:

A COMBINATION OF FULL AND OPEN SMALL BUSINESS SET ASIDE REQUIREMENT AND AN AGENCY PROJECT PLAN AGREEMENT

INITIATIVE ID: RSPAO010 **OA:** RSPA

ORGANIZATION/ENTITY (OA OFFICE SYMBOL - PHONE BOOK CODE): DTS

TITLE OF PROGRAM/PROJECT:

ADP INSTITUTIONAL SUPPORT SERVICES CONTRACT (AISSC)

TOTAL LIFE CYCLE COST (IN \$000): \$0

DESCRIPTION:

CONSISTENT WITH OMB-A-76, THE VOLPE CENTER HAS AN IN-HOUSE INSTITUTIONAL SUPPORT SERVICES CONTRACT THAT PROVIDES PROGRAMMING AND ANALYSIS SUPPORT FOR VOLPE CENTER INSTITUTIONAL APPLICATIONS, COMPUTER OPERATIONS, AND SYSTEMS PLANNING. IT ALSO PROVIDES HARDWARE AND SOFTWARE MAINTENANCE FOR THE DIGITAL VAX ADP FACILITIES AND THE VOLPE CENTER LAN AND SERVERS MAINTAINED AND OPERATED BY THE COMPUTER CENTER.

A SYNOPSIS OF VOLPE CENTER FINANCIAL SYSTEMS THAT EXIST UNDER THIS ENVIRONMENT INCLUDES:

System Name: Executive Information System - RSPA

Application Name: Management Information System/ Executive Information System

The Executive Information System (EIS) facilitates access to information that is contained in various Volpe Center financial and administrative management systems. The system enables users to develop projections and comparative analyses. It provides the capability to access and graphically display high level views of management data, as well as the underlying detailed data.

System Name: Payroll System - RSPA

Application Name: Labor distribution

The payroll system at the VOLPE center is a reporting system only, that does not calculate the actual payroll or generate checks. The DOT Payroll system transmits an output file and is used to generate reports and provide a basis of comparison for the Labor Distribution system.

System Name: Accounting System - DOT

Application Name: Financial Status of Programs (FSOP)

The FSOP system is comprised of 5 components, which consist of the: WPB (work plan budget); PLAN (project plan agreements); Fund Certification; Total Cost; and FSOP applications. The system tracks budgetary information, whose purpose is to provide funding information for project decision-making.

System Name: Accounting System - DOT
Application Name: Invoice Tracking System

The data tracked by this system includes invoices received, discount terms, invoice amount, vendor information, discounts taken, discounts lost, payment amount and payment date. The information is used to provide aging reports, which identify the overall status of the invoice payment process and are used in the selecting items for payment.

System Name: System - RSPA Procurement
Application Name: Procurement Request Information Mgmt. System (PRIM)

The PRIM system is for acquisition management. The system maintains information for approximately 1200 procurement additions and 200 contract awards per year. The system's on-line interface is utilized for entering award, modification and closing information. The PRIM system feeds various satellite acquisition systems that consist of the Procurement Status System; the Contract Administration System; and the Procurement Integrity System.

System Name: Property System - RSPA
Application Name: Property Management System

The Property Management system maintains information on approximately 20,000 items of tagged equipment. On-line maintenance is performed to record property additions, transfers, changes and deletion transactions.

System Name: Accounting System - DOT
Application Name: Communication Management System

The Communications System is a reporting system for all charges incurred for equipment, toll, long distance and FTS calls. Data is compared against bills that are received from the phone company. Audit are performed monthly and reports are generated..

System Name: Cost Distribution
Application Name: Support Service Contractor Labor distribution System

The purpose of the system is to compile accounting information for the labor and travel expenses / charges that are incurred by on-site contractors for services provided to the Volpe Center.

JUSTIFICATION - PERFORMANCE AND SAVINGS:

System Name: Mail Management Program

CONTACT PERSON AND PHONE NUMBER: Application Name: Mail Management Program MR.
ALAN KAPRELIAN (617) 494-2344

This application accumulates financial and other information for all of the outgoing mail / courier shipments from the Volpe Center

CONTRACT STRATEGY:

The system stamps and weighs mail, and provides all necessary FULL AND OPEN COMPETITION rate information.

INITIATIVE ID: RSPAO011

OA: RSPA

ORGANIZATION/ENTITY (OA OFFICE SYMBOL - PHONE BOOK CODE): DMA

TITLE OF PROGRAM/PROJECT:

OFFICE AUTOMATION FOR ADMINISTRATIVE SYSTEMS SUPPORT

TOTAL LIFE CYCLE COST (IN \$000): \$9,054

DESCRIPTION:

THIS PROGRAM PROVIDES THE OFFICE AUTOMATION AND COMMUNICATION SUPPORT FOR RSA HQ. THE LAN IS COMPLIMENTED WITH VARIOUS SERVERS THAT SUPPORT SPECIFIC OFFICE AUTOMATION FUNCTIONS FOR RSPA'S COMPUTER WORKSTATIONS. THE HELP DESK PROVIDES THE DAILY REMEDIAL AND PREVENTIVE SUPPORT, TRAINING , PROGRAMMING, PLANNING AND SPECIALIZED ASSISTANCE IN VARIOUS TECHNICAL AREAS.

JUSTIFICATION - PERFORMANCE AND SAVINGS:

WITHOUT THE SUPPORT TO MAINTAIN THE BASIC COMMUNICATIONS, WORKSTATION COMPONENTS, AND OTHER ESSENTIAL IRM SERVICES ALL OF RSPA WILL BE EFFECTED ADVERSELY

CONTACT PERSON AND PHONE NUMBER: ROBERT REMENTER (202) 366-9865

CONTRACT STRATEGY:

70% SMALL BUSINESS 8A CONTRACT; 30% FULL AND OPEN